

Construction Material

General

Soils are rated as sources for roadfill, topsoil, sand, and gravel. Suitability ratings of good, fair, or poor are given for soils used as a source of roadfill and topsoil. Ratings of probable and improbable are given for sand and gravel. A rating of probable means that on the basis of the available evidence, the source material is likely to be in or below the soil. A rating of improbable means that the source material is unlikely to be in or below the soil. The ratings for sand and gravel do not consider the quality of the source material because quality depends on how the source material is to be used.

Roadfill

Roadfill consists of soil material that is excavated from its original position and used in road embankments elsewhere. The evaluations for roadfill are for low embankments that generally are less than 6 feet in height and are less exacting in design than high embankments such as those along superhighways. The rating is given for the whole soil, from the surface to a depth of about 5 feet, based on the assumption that soil horizons will be mixed in loading, dumping, and spreading. Soils are rated as to the amount of material available for excavation, the ease of excavation, and how well the material performs after it is in place.

Sand

Sand as a construction material is usually defined as particles ranging in size from 0.074 mm (sieve #200) to 4.75 mm (sieve #4) in diameter. Sand is used in great quantities in many kinds of construction. Specifications for each purpose vary widely. The intent of this rating is to show only the probability of finding material in suitable quantity. The suitability of the sand for specific purposes is not evaluated. If the lowest layer of the soil contains sand, the soil is rated as a probable source regardless of thickness. The assumption is that the sand layer below the depth of observation exceeds the minimum thickness.

Gravel

Gravel as a construction material is defined as particles ranging in size from 4.76 mm (sieve #4) to 76 mm (3 inches) in diameter. Gravel is used in great quantities in many kinds of construction. Specifications for each purpose vary widely. The intent of this rating is to show only the probability of finding material in suitable quantity. The suitability of the gravel for specific purposes is not evaluated. If the lowest layer of the soil contains gravel, the soil is rated as a probable source regardless of thickness. The assumption is that the gravel layer below the depth of observation exceeds the minimum thickness.

Topsoil

The term "topsoil" has several meanings. As used here, the term describes soil material used to cover an area so as to improve soil conditions for establishment and maintenance of adapted vegetation. Generally, the upper part of the soil, which is richest in organic matter, is most desirable; however, material excavated from deeper layers is also used. In this rating, the upper 40 inches of soil material is evaluated for use as topsoil. In the borrow area, the material below 40 inches is evaluated for its suitability for plant growth after the upper 40 inches is removed. The soil properties that are used to rate the soil as topsoil are those that affect plant growth, the ease of excavation, loading, and spreading, and those that affect the reclamation of the borrow area.

See the National Soil Survey Handbook, Part 620, for criteria used in rating specific uses

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Aroostook County, Northeastern Part

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Soil name and map symbol	Roadfill	Sand	Gravel	Topsoil
AgA ALLAGASH	Good.	Probable.	Probable.	Poor: area reclaim.
AgB ALLAGASH	Good.	Probable.	Probable.	Poor: area reclaim.
AgC ALLAGASH	Good.	Probable.	Probable.	Poor: area reclaim.
AgD ALLAGASH	Poor: slope.	Probable.	Probable.	Poor: area reclaim, slope.
BeB BENSON	Poor: area reclaim, thin layer.	Improbable: excess fines.	Improbable: excess fines.	Poor: area reclaim, small stones.
BeC BENSON	Poor: area reclaim, thin layer.	Improbable: excess fines.	Improbable: excess fines.	Poor: area reclaim, small stones.
BeD BENSON	Poor: area reclaim, thin layer.	Improbable: excess fines.	Improbable: excess fines.	Poor: area reclaim, slope, small stones.
CdB CANANDAIGUA	Poor: wetness.	Improbable: excess fines.	Improbable: excess fines.	Poor: wetness.
CgA CARIBOU	Good.	Improbable: excess fines.	Improbable: excess fines.	Poor: area reclaim, small stones.

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Soil name and map symbol	Roadfill	Sand	Gravel	Topsoil
CgB CARIBOU	Good.	Improbable: excess fines.	Improbable: excess fines.	Poor: area reclaim, small stones.
CgC CARIBOU	Good.	Improbable: excess fines.	Improbable: excess fines.	Poor: area reclaim, small stones.
CgC2 CARIBOU	Good.	Improbable: excess fines.	Improbable: excess fines.	Poor: area reclaim, small stones.
CgD CARIBOU	Fair: slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: area reclaim, slope, small stones.
CgD2 CARIBOU	Fair: slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: area reclaim, slope, small stones.
CgE CARIBOU	Poor: slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: area reclaim, slope, small stones.
CoA CONANT	Fair: wetness.	Improbable: excess fines.	Improbable: excess fines.	Poor: area reclaim, small stones.
CoB CONANT	Fair: wetness.	Improbable: excess fines.	Improbable: excess fines.	Poor: area reclaim, small stones.
CoC CONANT	Fair: wetness.	Improbable: excess fines.	Improbable: excess fines.	Poor: area reclaim, small stones.

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Soil name and map symbol	Roadfill	Sand	Gravel	Topsoil
DaA DAIGLE	Poor: wetness.	Improbable: excess fines.	Improbable: excess fines.	Poor: area reclaim, small stones,
DaB DAIGLE	Poor: wetness.	Improbable: excess fines.	Improbable: excess fines.	Poor: area reclaim, small stones,
DaC DAIGLE	Poor: wetness.	Improbable: excess fines.	Improbable: excess fines.	Poor: area reclaim, small stones,
EaA EASTON	Poor: wetness.	Improbable: excess fines.	Improbable: excess fines.	Poor: area reclaim, small stones,
WASHBURN	Poor: wetness.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, wetness.
EaB EASTON	Poor: wetness.	Improbable: excess fines.	Improbable: excess fines.	Poor: area reclaim, small stones,
WASHBURN	Poor: wetness.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, wetness.
EsB EASTON	Poor: wetness.	Improbable: excess fines.	Improbable: excess fines.	Poor: area reclaim, small stones,
WASHBURN	Poor: wetness.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, wetness.

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Soil name and map symbol	Roadfill	Sand	Gravel	Topsoil
FhA FREDON	Poor: wetness.	Probable.	Probable.	Poor: area reclaim, small stones,
HALSEY	Poor: wetness.	Probable.	Probable.	Poor: area reclaim, small stones,
FhB FREDON	Poor: wetness.	Probable.	Probable.	Poor: area reclaim, small stones,
HALSEY	Poor: wetness.	Probable.	Probable.	Poor: area reclaim, small stones,
HaA HADLEY	Good.	Improbable: excess fines.	Improbable: excess fines.	Good.
HaB HADLEY	Good.	Improbable: excess fines.	Improbable: excess fines.	Good.
HoA HOWLAND	Poor: wetness.	Improbable: excess fines.	Improbable: excess fines.	Poor: area reclaim, small stones,
HoB HOWLAND	Poor: wetness.	Improbable: excess fines.	Improbable: excess fines.	Poor: area reclaim, small stones,
HoC HOWLAND	Poor: wetness.	Improbable: excess fines.	Improbable: excess fines.	Poor: area reclaim, small stones,

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Soil name and map symbol	Roadfill	Sand	Gravel	Topsoil
HvB HOWLAND	Poor: wetness.	Improbable: excess fines.	Improbable: excess fines.	Poor: area reclaim, small stones,
HvC HOWLAND	Poor: wetness.	Improbable: excess fines.	Improbable: excess fines.	Poor: area reclaim, small stones,
MaA MACHIAS	Fair: wetness.	Probable.	Probable.	Poor: area reclaim, small stones, too
MaB MACHIAS	Fair: wetness.	Probable.	Probable.	Poor: area reclaim, small stones, too
MaC MACHIAS	Fair: wetness.	Probable.	Probable.	Poor: area reclaim, small stones, too
MbA MADAWASKA	Fair: wetness.	Probable.	Improbable: too sandy.	Fair: small stones, thin layer.
MbB MADAWASKA	Fair: wetness.	Probable.	Improbable: too sandy.	Fair: small stones, thin layer.
MbC MADAWASKA	Fair: wetness.	Probable.	Improbable: too sandy.	Fair: slope, small stones, thin layer.
Md MADELAND	Limitation: variable.	Limitation: variable.	Limitation: variable.	Limitation: variable.

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Soil name and map symbol	Roadfill	Sand	Gravel	Topsoil
MhB MAPLETON	Poor: depth to rock.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, small stones.
MhC MAPLETON	Poor: depth to rock.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, small stones.
MhC2 MAPLETON	Poor: depth to rock.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, small stones.
MhD MAPLETON	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, slope, small stones.
MmC MAPLETON	Poor: depth to rock.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, small stones.
MmD MAPLETON	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, slope, small stones.
Mn MIXED ALLUVIAL LAND PD	Poor: wetness.	Improbable: excess fines.	Improbable: excess fines.	Poor: wetness.
MIXED ALLUVIAL LAND VPD	Poor: wetness.	Improbable: excess fines.	Improbable: excess fines.	Poor: wetness.
MoA MONARDA	Poor: wetness.	Improbable: excess fines.	Improbable: excess fines.	Poor: area reclaim, small stones,

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Soil name and map symbol	Roadfill	Sand	Gravel	Topsoil
MoA BURNHAM	Poor: wetness.	Improbable: excess fines.	Improbable: excess fines.	Poor: area reclaim, small stones,
MoB MONARDA	Poor: wetness.	Improbable: excess fines.	Improbable: excess fines.	Poor: area reclaim, small stones,
BURNHAM	Poor: wetness.	Improbable: excess fines.	Improbable: excess fines.	Poor: area reclaim, small stones,
MrB MONARDA	Poor: wetness.	Improbable: excess fines.	Improbable: excess fines.	Poor: area reclaim, small stones,
BURNHAM	Poor: wetness.	Improbable: excess fines.	Improbable: excess fines.	Poor: area reclaim, small stones,
NcA NICHOLVILLE	Poor: frost action.	Improbable: excess fines.	Improbable: excess fines.	Good.
NcB NICHOLVILLE	Poor: frost action.	Improbable: excess fines.	Improbable: excess fines.	Good.
Pa MUCK	Poor: wetness.	Improbable: excess fines.	Improbable: excess fines.	Poor: excess humus, wetness.
PEAT	Poor: wetness.	Improbable: excess humus.	Improbable: excess humus.	Poor: excess humus, wetness.

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Soil name and map symbol	Roadfill	Sand	Gravel	Topsoil
PeA PERHAM	Fair: wetness.	Improbable: excess fines.	Improbable: excess fines.	Poor: area reclaim, small stones.
PeB PERHAM	Fair: wetness.	Improbable: excess fines.	Improbable: excess fines.	Poor: area reclaim, small stones.
PeC PERHAM	Fair: wetness.	Improbable: excess fines.	Improbable: excess fines.	Poor: area reclaim, small stones.
PeD PERHAM	Fair: slope, wetness.	Improbable: excess fines.	Improbable: excess fines.	Poor: area reclaim, slope, small stones.
PgA PLAISTED	Good.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones.
PgB PLAISTED	Good.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones.
PgC PLAISTED	Good.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones.
PgD PLAISTED	Fair: slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: slope, small stones.
PgE PLAISTED	Poor: slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: slope, small stones.

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Soil name and map symbol	Roadfill	Sand	Gravel	Topsoil
PrB PLAISTED	Good.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones.
PrC PLAISTED	Good.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones.
PrD PLAISTED	Fair: slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: slope, small stones.
PrE PLAISTED	Poor: slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: slope, small stones.
PvB PLAISTED	Good.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones.
HOWLAND	Poor: wetness.	Improbable: excess fines.	Improbable: excess fines.	Poor: area reclaim, small stones,
PvC PLAISTED	Good.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones.
HOWLAND	Poor: wetness.	Improbable: excess fines.	Improbable: excess fines.	Poor: area reclaim, small stones,
RaA RED HOOK	Poor: wetness.	Improbable: excess fines.	Improbable: excess fines.	Poor: area reclaim, small stones,

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Soil name and map symbol	Roadfill	Sand	Gravel	Topsoil
RaA ATHERTON	Poor: wetness.	Improbable: excess fines.	Improbable: excess fines.	Poor: area reclaim, small stones,
RaB RED HOOK	Poor: wetness.	Improbable: excess fines.	Improbable: excess fines.	Poor: area reclaim, small stones,
ATHERTON	Poor: wetness.	Improbable: excess fines.	Improbable: excess fines.	Poor: area reclaim, small stones,
Re RIVERWASH	Poor: wetness.	Probable.	Probable.	Poor: area reclaim, small stones, too
SaA SALMON	Good.	Probable.	Probable.	Poor: area reclaim.
SaB SALMON	Good.	Probable.	Probable.	Poor: area reclaim.
SaC SALMON	Good.	Probable.	Probable.	Poor: area reclaim.
Sb ROCK OUTCROP	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, slope.
THORNDIKE	Poor: depth to rock, slope.	Improbable: thin layer.	Improbable: thin layer.	Poor: depth to rock, slope, small stones.

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Soil name and map symbol	Roadfill	Sand	Gravel	Topsoil
SgA STETSON	Good.	Probable.	Probable.	Poor: area reclaim, small stones.
SgB STETSON	Good.	Probable.	Probable.	Poor: area reclaim, small stones.
SgC STETSON	Good.	Probable.	Probable.	Poor: area reclaim, small stones.
SgD STETSON	Fair: slope.	Probable.	Probable.	Poor: area reclaim, slope, small stones.
SgE STETSON	Poor: slope.	Probable.	Probable.	Poor: area reclaim, slope, small stones.
ThB THORNDIKE	Poor: depth to rock.	Improbable: thin layer.	Improbable: thin layer.	Poor: depth to rock, small stones.
ThC THORNDIKE	Poor: depth to rock.	Improbable: thin layer.	Improbable: thin layer.	Poor: depth to rock, small stones.
ThD THORNDIKE	Poor: depth to rock.	Improbable: thin layer.	Improbable: thin layer.	Poor: depth to rock, slope, small stones.
ThE THORNDIKE	Poor: depth to rock, slope.	Improbable: thin layer.	Improbable: thin layer.	Poor: depth to rock, slope, small stones.

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Soil name and map symbol	Roadfill	Sand	Gravel	Topsoil
TkB THORNDIKE	Poor: depth to rock.	Improbable: thin layer.	Improbable: thin layer.	Poor: depth to rock, small stones.
TkC THORNDIKE	Poor: depth to rock.	Improbable: thin layer.	Improbable: thin layer.	Poor: depth to rock, small stones.
TkD THORNDIKE	Poor: depth to rock.	Improbable: thin layer.	Improbable: thin layer.	Poor: depth to rock, slope, small stones.
TkE THORNDIKE	Poor: depth to rock, slope.	Improbable: thin layer.	Improbable: thin layer.	Poor: depth to rock, slope, small stones.
TrE THORNDIKE	Poor: depth to rock, slope.	Improbable: thin layer.	Improbable: thin layer.	Poor: depth to rock, slope, small stones.
ROCK OUTCROP	Poor: depth to rock.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, slope.
TsB THORNDIKE	Poor: depth to rock.	Improbable: thin layer.	Improbable: thin layer.	Poor: depth to rock, small stones.
HOWLAND	Poor: wetness.	Improbable: excess fines.	Improbable: excess fines.	Poor: area reclaim, small stones,
TsC THORNDIKE	Poor: depth to rock.	Improbable: thin layer.	Improbable: thin layer.	Poor: depth to rock, small stones.

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Soil name and map symbol	Roadfill	Sand	Gravel	Topsoil
TsC HOWLAND	Poor: wetness.	Improbable: excess fines.	Improbable: excess fines.	Poor: area reclaim, small stones,
Wn WINOOSKI	Fair: wetness.	Improbable: excess fines.	Improbable: excess fines.	Fair: too sandy.